



Proof of performance

# TUIfly breaks lubricant performance milestone

Mobil Jet™ Oil II helps airline break time-on-wing record

## Performance spotlight

TUIfly sets time-on-wing record

# 50,005

flight hours without a shop visit.

On May 10, 2012, the German airline TUIfly set a new time-on-wing record for an aircraft engine on a flight from Palma de Mallorca, Spain, to Hannover, Germany. The Boeing Next-Generation 737-800 aircraft accumulated 17,596 cycles and 50,005 hours without a shop visit for the Snecma CFM56-7B engine. The engine was in service for more than 10 years, operating from March 1999 to May 2012. This extraordinary feat, which is a testament to lubricant performance, was achieved using Mobil Jet Oil II.

## Record-setting lubricant



Mobil Jet Oil II is a synthetic "Type II" lubricant for aircraft-type gas-turbine engines. Formulated with a highly stable polyol ester base stock and unique additive system, it helps control deposits, keep oil systems clean, extend engine life and reduce engine maintenance. It has a 50-year history of outstanding performance and is the lubricant of choice for many of the world's leading airlines.

**Mobil Jet™**

Technology by **ExxonMobil**

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## Engine inspection

The engine inspection on June 7-8, 2012, focused on the condition of the engine's oil-wetted parts, and especially oil sumps, bearings and oil pipes located in the turbine rear frame struts, where coke deposits may form. Representatives from GE, TUIfly, Snecma and ExxonMobil were in attendance.



**Rear part of forward sump.** Sump walls and the inlet gearbox, in situ in the fan frame, were exceptionally clean.

## Engine condition

The engine was performing flawlessly before the inspection, which took place when it was removed for life-limited parts replacement based on the number of cycles. At removal, all engine parameters were still within limits, most notably the EGT (exhaust gas temperature) margin. The last margin was still at 42°C. An extensive report on all engine components concluded that Mobil Jet™ Oil II provides outstanding protection for CFM56 engines.



**Bearing #4.** Oil supply grooves under the inner race were free of sludge and deposits. A few small particles were trapped by centrifugal forces in the forward circular groove. The small feeding holes were free of clogging.

## Exceptionally clean

After 50,005 flight hours and 17,596 cycles without a shop visit, oil-wetted parts of the Boeing Next-Generation 737-800 aircraft's CFM56-7B engine were exceptionally clean.



**Bearing #5.** Laboratory inspection found bearing #5 without defect and serviceable.

## For more information

Please contact your ExxonMobil aviation sales representative.

This proof of performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

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